International application No.

PCT/AU03/00716

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C07C 43/205, 49/84, 65/24, 309/60, 309/75, 309/47, 69/94, 57/50, 205/59, 323/43, 215/50, 219/22, 69/76, 211/57, 43/23, 43/225, 255/37, 65/28; C07D 319/22; A61K 31/075, 31/12, 31/185, 31/192, 31/205, 31/216, 31/255, 31/277, 31/357; A61P 25/00, 29/00, 31/00, 35/00, 37/00, 43/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
STN Substructure and keyword search: mif, macrophage, cell, cancer, tumo? sepsis, cytokine, autoimmune, inflamm?;
STN File CA substructure, molecular formula and chemical name searches in regard to claim 41

DOCUMENTS CONSIDERED TO BE RELEVANT C. Relevant to Citation of document, with indication, where appropriate, of the relevant passages Category* claim No. X NL 6809942 (SYNTEX CORPORATION) 14 January 1970 1-17, 19-40 See page 2, page 18 line 17 drawings US 3562336 (NELSON, P H et al) 9 February 1971 X 1-17, 19-40 See formulas II, IV, V; examples 1-5, claims 1-4 Х DE 2051012 (SYNTEX CORP) 20 April 1972

	See page 1 lines 14-15, page14 line	s 17-1	8; formula (I)	1-17, 19-40
	X Further documents are listed in the con	ntinuat	ion of Box C X See patent family ann	ex
*	Special categories of cited documents:			-
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing da and not in conflict with the application but cited to unde or theory underlying the invention	
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention considered novel or cannot be considered to involve an when the document is taken alone	
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	пYи	document of particular relevance; the claimed invention considered to involve an inventive step when the documents or more other such documents, such combinating person skilled in the art	ent is combined
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family	
чPu	document published prior to the international filing			

Date of the actual completion of the international search 25 August 2003	Date of mailing of the international search report 2 0 OCT 2003
Name and mailing address of the ISA/AU	Authorized officer
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	CHRISTINE BREMERS Telephone No: (02) 6283 2313

date but later than the priority date claimed

PCT/AU03/0071								
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x	DE 2258349 (SANDOZ AG) 7 June 1973 See formulas Ia, IIa, IIc, IId, VI, X, XIII; examples 11 a, 11e-11g, claim 1	1-17, 19-40						
X	DE 2329298 (BOTTU S.A.) 20 December 1973 See formulas I, II claims 1-4	1-17, 19-40						
х	DT 2442305 (BEECHAM GROUP LTD) 13 March 1975 See formulas I-V, XVI, XXI; examples 1, 2-9, 11, 13, 15, 16; claims 1, 2	1-17, 19-40						
X	US 3904682 (FRIED, J H et al) 9 September 1975 See formulas I, K,L, P, Q, R; examples 1-3, 6-9, 14-30, 32, 34-37; claims 1, 2	1-17, 19-40						
. X	US 3935273 (FRIED, J H et al) 27 January 1976 See formulas II, III, VII, VIII; prep 1; examples 1-3, 6, 11A, 11B; claims 1-11	1-17, 19-40						
X .	NL 7512107 (SYNTEX CORPORATION) 30 January 1976 See page 6 lines 5-12 and lines 17 and 25; compounds 10-13; claim 1	1-17; 19-40						
x	US 3958012 (FRIED, J H et al) 18 May 1976 See formulas I, II; preps 1-4; examples 1-2	1-17, 19-40						
x	US 3969415 (GALANTAY, E E) 13 July 1976 See formulas I, Ia, Ib, V IX, XII; examples 1, 2, 4, 6, 8; claims 1-4, 6, 10-12	1-17, 19-40						
X	US 3978124 (FRIED, J H et al) 31 August 1976 See formulas I, III-IV, XI, XIV-XVI, J, K, M, P, Q, R; examples 1, 2A, 2D, 2F, 5, 11, 12A, 12B, 14B, 15, 21, 23, 25, 28	1-17, 19-40						
x	US 3994968 (ALVAREZ, F S) 30 November 1976 See formulas V, VII, IX, X-XIV; column 11 lines 3-42, column 13 lines 30-50; examples 6-8, 10, 12-20	1-17, 19-40						
x	US 3998966 (FRIED, J H et al) 21 December 1976 See formulas I, III, IX, XI, XIV-XVI, J, K, M; examples 1, 2A, 2C, 2D, 2F, 5, 11, 12A, 12B, 14B, 15, 21, 23, 25; claims 1-25	1-17, 19-40						
х	US 4009197 (FRIED, J H et al) 22 February 1977 See formulas I, K, L, P, Q, R; examples 1-3, 6-9, 14-30, 32, 34-37; claims 1-11	1-17, 19-40						

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C (Continua	C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT							
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x	X JP 52-133962 (GRELAN PHARMACEUT CO LTD) 9 November 1977 See formulas I, II, IV							
X .	PATENT ABSTRACTS OF JAPAN, JP 62-103074 (HAMARI YAKUHIN KOGYO KK) 13 May 1987 See formula I	1-17, 19-40						
x	JP 63-203631 (NIPPON KAYAKU CO LTD) 23 August 1988 See formulas I, III; page 225 compounds (1), (2), page 226 column 2, page 227 compounds (1), (4), (5)	1-17, 19-40						
x	EP 279466 B1 (WARNER-LAMBERT COMPANY) 24 August 1988 See compounds (5)-(8); prep 7; examples 7, 14, 16, 32; claim 10	1-17, 19-40						
x	EP 284359 B1 (TAKEDA CHEMICAL INDUSTRIES, LTD) 28 September 1988 See examples 9, 17, 20-22, 40	1-17, 19-40						
x	EP 286944 B1 (ENICHEM SYNTHESIS S.P.A.) 19 October 1988 See example 1	1-17, 19-40						
x	EP 301813 B1 (AMERICAN HOME PRODUCTS CORPORATION) 1 February 1989 See pages 3-4; examples 2, 6, 10; claims 1, 7, 11, 14-16, 18, 20	1-17, 19-40						
x ,	US 4910208 (MISRA, R N) 20 March 1990 See formulas B, C, B', C', XIII-XVIII, XX; examples 2A, 4A, 5B, 5C, 8A, 9A	1-17, 19-40						
x	EP 372385 A2 (F. HOFFMANN-LA ROCHE AG) 13 June 1990 See formula XXIII; examples 2-4	1-17, 19-40						
х	WO 91/08744 A1 (ABBOTT LABORATORIES) 27 June 1991 See pages 8-11; examples 1, 5-7, 28-43, 45-46; claims 3, 5-6	1-17, 19-40						
x	US 5084575 A (KREFT III, A F et al) 28 January 1992 See columns 2-4; examples 1, 10-13	1-17, 19-40						
x	US 5208344 A (KREFT III, A F et al) 4 May 1993 See columns 2-4; examples 1, 10-13	1-17, 19-40						

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x	WO 96/04267 A1 (LABORATORIOS MENARINI S.A.) 15 February 1996 See compounds VII, VIIa-VIId, XV-XXIV, XXVI-XXVII, XXXV; examples 21A-C	1-17, 19-40					
x	WO 97/31006 A1 (GLYCOMED INCORPORATED) 28 August 1997 See pages 27-31,118; claims 1, 33	1-17, 19-40					
x	WO 97/30992 A1 (BRISTOL-MYERS SQUIBB COMPANY) 28 August 1977 See compound 170 and page 144 lines 9-19	1-17, 19-40					
x	EP 0818453 B1 (ELI LILLY AND COMPANY) 14 January 1998 See formulas IIIb, IVb; prep 4	1-17, 19-40					
x	US 6420375 B1 (&WO 98/37070 A1) (TAKEDA CHEMICAL INDUSTRIES, LTD) 27 August 1998) See example 17; claim 19	1-17, 19-40					
x	WO 99/01768 A1 (NYCOMED AMERSHAM PLC) 14 January 1999 See page 8 lines1-10; claims 6, 10	1-17, 19-40					
x	ES 2150848 A1 (LABORATORIOS MENARINI, S.A.) 1 December 2000 See formula VII	1-17, 19-40					
X	WO 01/44172 A1 (AXYS PHARMACEUTICALS, INC.) 21 June 2001 See page 3; formulas X, Y	1-17, 19-40					
X	Bosca, F et al, "A photophysical and photochemical study of 6-methoxy-2-naphthylacetic acid, the major metabolite of the phototoxic nonsteroidal antiinflammatory drug nabumetone", Photochemistry and Photobiology (2000), vol 71 no 2, 173-177 See Figure 1	1-17, 19-33, 35-40					
х	Prabhakar, C et al, "Synthesis and biological activity of novel thiazolidinediones", Bioorganic & Medicinal Chemistry Letters (1998), vol 8 no 19, 2725-2730 See page 2726 third and fourth compounds, page 2727 compound 10	1-17, 19-33, 35-40					
х	Bosca, F et al, "New photodegradation pathways for Naproxen, a phototoxic non- steroidal anti-inflammatory drug", Preliminary Note in Journal of Photochemistry and Photobiology A: Chemistry (1990), vol 54 no 1, 131-134 See page 131 compounds 1a-1j	1-17, 19-40					

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x	Hiyama, T et al, "A facile, practical synthesis of 2-(6-methoxy-2-naphthyl)propenoic acid", Bulletin of the Chemical Society of Japan (1990) vol 63 no 2, 640-2 See compounds 1-8	1-17, 19-40					
x	Harusawa, S et al, "A new synthesis of some non-steroidal anti-inflammatory agents via cyanophosphates", Synthetic Communications (1984), vol 14 no 14, 1365-1371 See Scheme 2 compounds 5, 7, 8	1-17, 19-40					
x	Ray, J E et al, "High-performance liquid chromatographic determination of a new anti- inflammatory agent, nabumetone, and its major metabolite in plasma using fluorimetric detection", Note in Journal of Chromatography (1984) vol 336 no 1, 234-238 See page 234 Figure 1 compounds (II), (IV), (V) and last compound.	1-17, 19-40					
х	Cavrini, V et al, "Sintesi di derivati della 2-metossinaftalina come potenziali antiinfiammoatori" [Synthesis of derivatives of 2-methoxynaphthalene as potential antiinflammatories], Farmaco, Edizione Scientifica (1982) vol 37 no 3, 171-178 See compounds (I), (II), (IVa) (Va), (VIIa), (IXa)	1-17, 19-40					
x	Goudie, A C et al, "4-(6-methoxy-2-naphthyl)butan-2-one and related analogues, a novel structural class of antiinflammatory compounds", Journal of Medicinal Chemistry (1978) vol 21 no 12, 1260-1264 See Scheme I, Scheme II compounds 5, 6, 7, 10	1-17, 19-40					
х	US 5268458 A (SPRINGER, H) 7 December 1993 & STN FILE CA Abstract No. 115:282060 See US 5268458 column 11 lines 56 and 68, example A(b)	1-41					
Х	JP 01076063 (DAINICHISEIKA COLOR AND CHEMICALS MFG. CO.) 22 March 1989 & STN FILE CA Abstract No. 113:162461 See JP 01076063 (64-76063) page 552 compound II-36	1-41					
x	EP 123543 (MERCK FROSST CANADA, INC.) 31 October 1984 & STN FILE CA Abstract No. 102:166470 See EP 123543 example 78 Step 1	1-41					
х	STN FILE CA Abstract No. 91:91390 & Tetrahedron Letters (1978), vol 52, 5183-5186 See chemical abstract and CAS RN 71056-96-7	1-41					
x .	STN FILE CA Abstract No. 89:6137 & Kametani, T et al, Yakugaku Zasshi (1987) vol 98 no 2, 146-152 See chemical abstract	1-41					



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х	STN FILE CA Abstract No. 77:114208 & Journal of Heterocyclic Chemistry (1972), vol 9 no 4, 805-811 See chemical Abstract and CAS RN 37707-72-5	1-41
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x	STN FILE CA Abstract No. 67:79969 & Journal of Pharmaceutical Sciences (1967), vol 56 no 8, 993-997 See chemical Abstract and CAS RN 17295-11-3	1-41
x	STN FILE CA Abstract No. 64:3950 & Australian Journal of Chemistry (1965) vol 18 no 9, 1351-1364 See chemical Abstract	1-41
x	STN FILE CA Abstract No. 57:10708 & Journal of the American Chemical Society (1962) vol 84, 859-862 See chemical Abstract and CAS RN 73022-40-9	. 1-41
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Box I Observations where certain claims were found unsearchable (Continuation	n of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Ar reasons:	ticle 17(2)(a) for the following
1. Claims Nos:	
because they relate to subject matter not required to be searched by this Auth	ority, namely:
Claims Nos: 1-40 (all In part) because they relate to parts of the international application that do not comply such an extent that no meaningful international search can be carried out, spe Claims 1-40 are broadly drafted such that a complete search was not complete the complete search was not complete that therefore been limited substantially to the examples and the complete.	cifically: economically feasible. The search
The standard sections are the second sections are the situations	that ware found
The cited documents are only a representative sample of the citations 3. Claims Nos:	mat were found.
because they are dependent claims and are not drafted in accordance with the 6.4(a)	second and third sentences of Rule
Box II Observations where unity of invention is lacking (Continuation of item 3 of	f first sheet)
This International Searching Authority found multiple inventions in this international applications.	tion, as follows:
As all required additional search fees were timely paid by the applicant, this is searchable claims	nternational search report covers all
2. As all searchable claims could be searched without effort justifying an additional fee.	onal fee, this Authority did not invite
3. As only some of the required additional search fees were timely paid by the a report covers only those claims for which fees were paid, specifically claims	
4. No required additional search fees were timely paid by the applicant. Consective is restricted to the invention first mentioned in the claims; it is covered by claims.	
Remark on Protest The additional search fees were accompanied by the app	plicant's protest.
No protest accompanied the payment of additional search	ch fees.

International application No.

PCT/AU03/00716

Information on patent family members

This Amex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report		₹	Pate	ent Family Member		
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International application No.

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Information on patent family members

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